

S/169/61/000/012/006/089
D228/D305

Seismic observations of...

aim of establishing the seismic characteristics of the ground on which the field stations were located. Graphs of the frequency of the different periods of the P and S waves during close earthquakes were compiled for all stations. The analysis of the graphs showed that at the Arshan and Mondy stations, situated on limestones and deposits of boulders and gravel, periods of 0.2 - 0.3 sec. recur in the longitudinal P wave; the periods in the transverse S wave equalled 0.4 - 0.5 sec. At the Shimki and Zhemchug stations, located on lacustrine sands and flood-plain alluvium, the periods in the P and S waves were 0.3 - 0.4 and 0.5 - 0.6 respectively. For dense rocks, the ratio of the amplitudes of transverse waves to those of longitudinal waves is two times smaller than for argillo-arenaceous formations. The coefficients of seismic-wave attenuation were calculated from the records of some earthquakes. The coefficient of attenuation was equal to $(6 - 12)10^{-3} \text{ km}^{-1}$ for longitudinal .
✓

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Seismic observations of...

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waves and $(1.5 - 2.5)10^{-3}$ km $^{-1}$ for transverse waves. ✓ Ab-

stracter's note: Complete translation.

Card 4/4

S/169/61/000/012/007/089
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AUTHOR: Khovanova, R. I.

TITLE: The Kyren earthquake of October 22, 1958

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 12, 1961,
14, abstract 12A133 (Byul. Soveta po seysmol.
AN SSSR, 1960, no. 10, 40-43)

TEXT: Two strong earthquakes, whose foci were situated near the town of Kyren, were recorded in the Baykal region in August and October 1958. The results of the processing of the instrumental and microseismic data on the earthquakes are given. For the earthquake of August 10, the epicentral coordinates were $51^{\circ} 73' N$, $101^{\circ} 93' E$; the focal depth was 10 km, and the force was 5 - 6. For the earthquake of October 22, the epicentral coordinates were $51^{\circ} 75' N$, $102^{\circ} 86' E$, and the focal depth was 10 km. The epicenters of both the Kyren earthquakes were located near a major regional fault which passes along the northern rim

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The Kyren earthquake...

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of the Tunki Depression, and the earthquakes appear to be the result of movements along this fault. The dips of the fault with respect to the ground surface were determined from the epicentral distances from the fault and focal depths. An attempt was made to determine approximately the character of the stresses and the orientation of the possible surface of sliding at the foci of these earthquakes. ✓ [Abstracter's note: Complete translation.]

Card 2/2

SOV/49-59-10-12/19

AUTHOR: Khovanova, R. I.

TITLE: On the T-Phase and the Probability of its Effect on the Tsunami ✓

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya geofizicheskaya
1959, Nr 10, pp 1506-1509 (USSR)

ABSTRACT: An account is given of the phenomenon as described by various investigators (Refs 1 to 15). An assumption is made that the T-phase can be considered as a group of changeable waves, i.e. they start as P or S (SV) waves at a focus below the ocean bed, then propagate in greater depths of water with the velocity of 1.5 km/sec and change again into waves P or S in the Continent. The Tsunami occur only in cases where an earthquake focus is placed near the ocean bottom. As an example, T-phase as described by Wadati and Inouye (Ref 8), is illustrated in Figs 1 and 2. There are 2 figures and 15 references, 1 of which is Soviet, 12 English and 2 French. 

ASSOCIATION: Akademiya nauk SSSR Institut fiziki Zemli (Academy of Sciences USSR. Institute of Physics of the Earth)

SUBMITTED: June 30, 1958

Card 1/1

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卷之三

TIME: Session on Seismology and Tectonics of the Pre-Baikal and the Adjacent Regions

PERIODICAL: *Izvestiya Akademii Nauk SSSR. Seriya Geofizicheskaya*, 1959, No. 10, pp. 1527-1528 (USSR)

ABSTRACT: The Session took place on the 9 to 17 June 1959. It was convened by the Council on Seismology, I. G. Ac.

Part IV. - Geological Survey of South Siberia, and
Geological Institute of Novosibirsk. - Geomorphology and
Geodynamics of Mongolia. I. - Geomorphology and
Geodynamics of the Altai, Tianshan, and Gobi Deserts
and Mongolia. II. - Geomorphology and Geodynamics of
the Pro-Baikals. - Morphology and Pedogenics of
Geological Institutes. - Landforms and Siberian
Geological Institutes. - Pedogenics of the

<p>Card 2/a</p> <p>Card 2/b</p> <p>Card 2/c</p> <p>Card 2/d</p> <p>Card 2/e</p> <p>Card 2/f</p> <p>Card 2/g</p> <p>Card 2/h</p> <p>Card 2/i</p> <p>Card 2/j</p> <p>Card 2/k</p> <p>Card 2/l</p> <p>Card 2/m</p> <p>Card 2/n</p> <p>Card 2/o</p> <p>Card 2/p</p> <p>Card 2/q</p> <p>Card 2/r</p> <p>Card 2/s</p> <p>Card 2/t</p> <p>Card 2/u</p> <p>Card 2/v</p> <p>Card 2/w</p> <p>Card 2/x</p> <p>Card 2/y</p> <p>Card 2/z</p>

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722310017-8

IVANOV, N.A., prof.; GRUZDEV, V.F.; KHOVANOVA, V.A.

Experience in the use of aminazine in dermatological practice.
Sov.med. 24 no.3:120-123 Mr '60. (MIRA 14:3)

1. Iz Leningradskogo oblastnogo kozhno-venerologicheskogo dispensera
(glavnnyy vrach L.D.Perevessentsev).
(SKIN—DISEASES) (CHLORPROMAZINE)

L 06453-67 EWT(1)/EWT(m)/EWP(t)/ETI IJP(c) JD/JG
ACC NR: AP6024542 SOURCE CODE: UR/0089/66/021/001/0049/0050

AUTHOR: Kukarin, A. I.; Khovanovich, A. I.

28

15

ORG: none

TITLE: Ionization chamber with silver electrodes for the measurement of fluxes of thermal neutrons at high levels of accompanying gamma radiation

SOURCE: Atomnaya energiya, v. 21, no. 1, 1966, 49-50

TOPIC TAGS: thermal neutron, reactor neutron flux, gamma background, ionization chamber, beta decay

17

ABSTRACT: The described chamber (Fig. 1) uses electrodes of Ag^{107} (51.9%) and Ag^{109} (49.1%) (natural isotope mixture), which are transformed into β -active Ag^{108} and Ag^{110} by the thermal neutrons, and the neutron flux is determined from the ionization produced by the decay of these isotopes. Since the chamber current is measured after the irradiation, the gamma background does not influence the measurements. The use of a multirange microammeter permits measurement of thermal neutron fluxes from 10^8 to 10^{13} neut/cm²sec. Larger fluxes can be measured by reducing the irradiation time or by increasing the measured current range. To ensure saturation, a voltage source of 3 kv and 300 a is required. The proposed procedure can also be used to measure integral fluxes of thermal neutrons from pulsed sources. The accuracy is within $\pm 10\%$. Orig. art. has: 2 figures and 2 formulas.

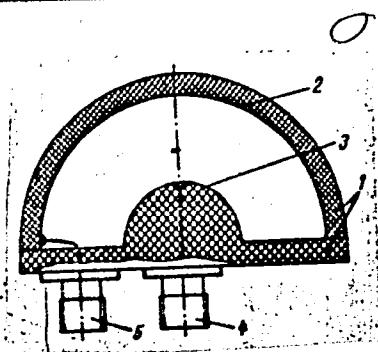
Card 1/2

UDC: 539.107.48

L 06453-67

ACC NR: AP6024542

Fig. 1. Diagram of ionization chamber. 1 - Plexiglas housing, 2,3 - electrodes, 4,5 - current leads



SUB CODE: 18/ SUBM DATE: 23Dec63

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L 38853-66 EWT(m)

ACC NR: AP6029714

SOURCE CODE: UR/0089/66/020/001/0059/0060

AUTHOR: Khovanovich, A. I.; Kokovikhin, V. F.47
45
B

ORG: none

TITLE: Time dependence of neutron yields from (Ra + MsTh)-Be source

19

SOURCE: Atomnaya energiya, v. 20, no. 1, 1966, 59-60

TOPIC TAGS: alpha decay, radioactive decay, neutron physics, radiation source, half life

ABSTRACT: As a result of the relatively short half-life of mesothorium, the neutron yield of the (Ra + MsTh)-Be sources changes with time. The neutrons are generated in the source by the $^9\text{Be}(\alpha, n)^{12}\text{C}$ reaction; the α particles are emitted by the Ra and the Ra + MsTh daughters. The neutrons emitted by Ra are practically independent of time. Decay of the non- α -emitting mesothorium results in the accumulation of Th and its daughters which are α emitters. Designating by A and B the MsTh and Ra concentrations of a freshly prepared source, expressed in mg equiv of Ra and assuming that A/B = 2/3, as is often the case, the relation $N_t = N_0(1 + 2.02\eta_t)$ is obtained, whereby N_0 and N_t represent the neutron yields immediately after preparation of the source and after a time, t, respectively. The term η_t is a function of the decay constants of MsTh and Ra; its time dependence was calculated for the time period from 0 to 25 years. The curve obtained was verified during the past six years with a source containing 40% MsTh and 60% Ra. The experimental data and the calculated values agreed within a maximum error of 3%. The authors thank O. I. Leypunskiy for

Card 1/2

UDC: 539.172.16

0918 0191

L 38853-66

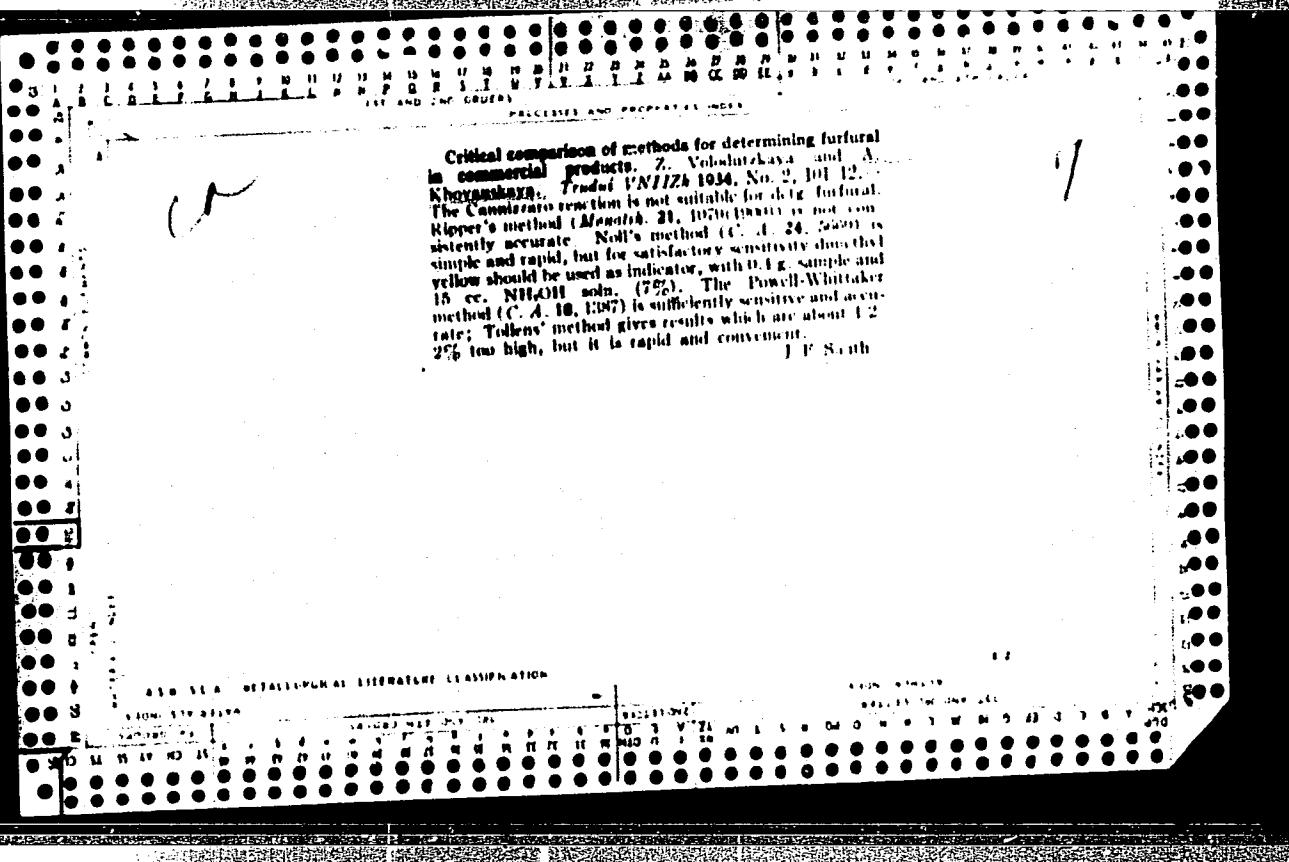
ACC NR: AP6029714

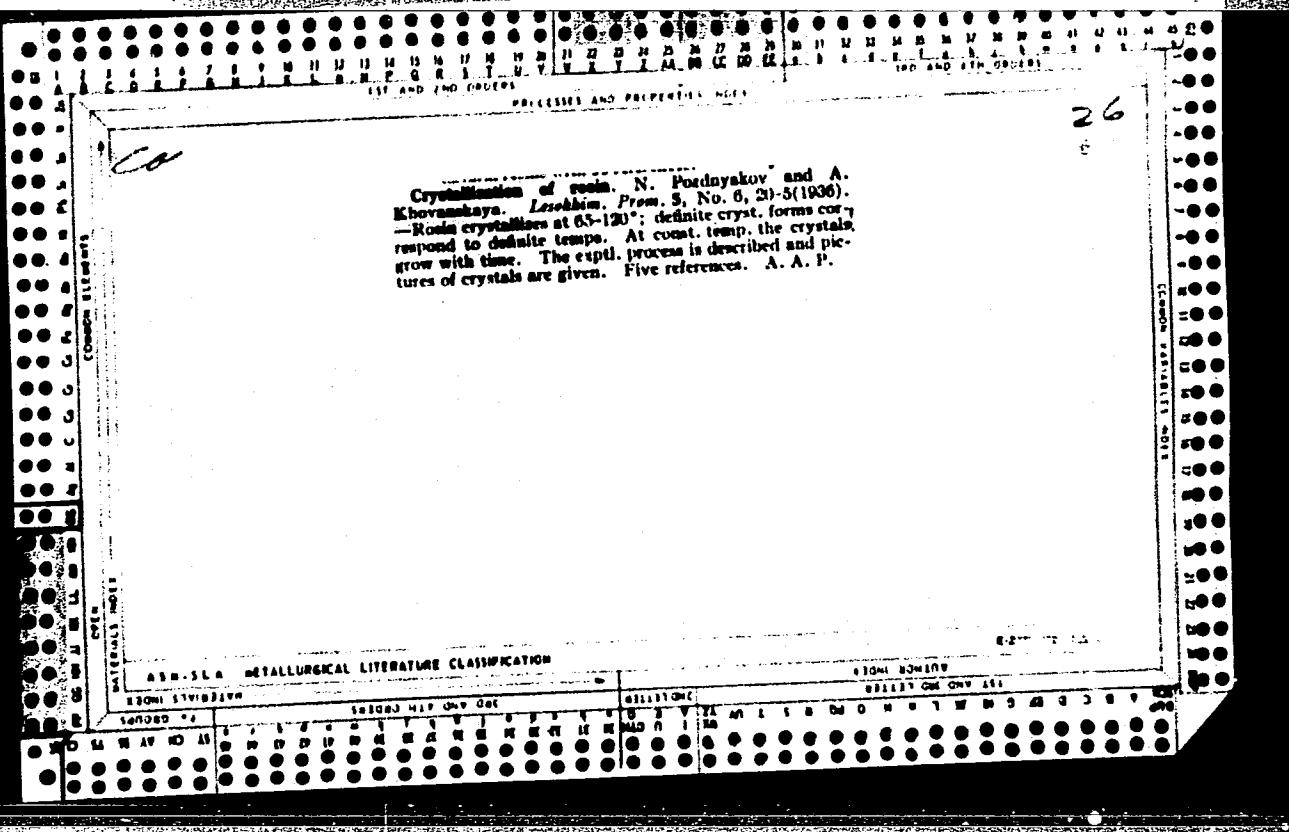
2

his interest in this work, and also L. B. Pikel'ner and Ye. S. Frid for valuable comments brought out by discussions of this work. Orig. art. has: 1 figure and 2 formulas. [NA]

SUB CODE: 18, 20 / SUBM DATE: 17Mar65

ms
Card 2/2





KHOVANSKAYA, A.

D. Tishchenko and A. Khovanskaya - "A new type of terpene transformation. V. Reaction of chlorine with 3-carene." (p. 1003)

SO: Journal of General Chemistry, (Zhurnal Obshchei Khimii), 1950, Vol. 20, No. 6.

KHOVANSKAYA, A.

Tishchenko, D., Khovanskaya, A., Danilova, T. - "New type of terpene transformations. VII. Preparation of alcohols and ethers from terpene hydrochlorides." (p. 803)

SO: Journal of General Chemistry, (Zhurnal Obshchei Khimii), 1952, Vol. 22, No. 5

KHOVANSKAYA, A. I.

Khovanskaya, A. I. "Tropical malaria in the Mogilev oblast of the bSSR,"
Med. parazitologiya i parazitar. Tolezni, 1948, No. 6, p. 538-42

SO: U#2888, Letopis, Zhurnal'nykh, Statey, No. 1, 1949

KHOVANSKAYA, A. P.

Cand Chem Sci

Dissertation: "Chlorination Mechanism of d-Earene." 9/5/50

All-Union Sci Res Inst of Synthetic and Natural Scents, Ministry of Food
Industry USSR.

SO Vecheryaya Moskva
Sum 71

SUMAROKOV, Viktor Pavlovich; VOLODUTSKAYA, Zinaida Mikhaylovna; VYSOTSKAYA,
Varvara Afanas'yevna; KLINSKIKH, Yevgeniya Vasil'yevna; KHOVANSKAYA,
A.P., red.; VOLOKHONSKAYA, L.V., red.izd-va; BACHURINA, A.M.,
tekhn.red.

[Methods for the analysis of products of pyrogenic wood processing]
Metody analiza produktov pirogeneticheskoi pererabotki drevesiny.
Moskva, Goslesbum'ndat, 1960. 251 p. (MIRA 14:1)

1. Tsentral'nyy nauchno-issledovatel'skiy lesokhimicheskiy institut
(for Sumarokov, Volodutskaya, Vysotskaya, Klinskikh).
(Wood--Chemistry)

POVOLOTSKAYA, K.L.; BASKAKOV, Yu.A.; KHOVANSKAYA, I.V.

Interaction of uracil, riboflavin, and maleic hydrazide in
plants. Fiziol.rast. 7 no.1:73-80 '60. (MIRA 13:5)

I. K.A.Timiriazev Institute of Plant Physiology, U.S.S.R.
Academy of Sciences, Moscow.
(MALEIC ACID) (URACIL) (RIBOFLAVIN)

POVOLOTSKAYA, K.L.; RAKITIN, Yu.V.; KHOVANSKAYA, I.V.

Participation of heteroauxins in the translocation of sugars in
plants. Fiziol. rast. 9 no.3:303-308 '62. (MIRA 15:11)

1. K.A.Timiriazev Institute of Plant Physiology, U.S.S.R. Academy
of Sciences, Moscow.
(Indolacetic acid) (Sugars) (Plants—Respiration)

MAZAYEVA, M.M., kand.khim.nauk; NEUGODOVA, O.V.; KHOVANSKAYA, K.M.

Trilonometric method applied in the agrochemical analysis of
calcium and magnesium. Zemledelie 8 no.11:71-75 N '60.
(MIRA 13:10)

I. Nauchnyy institut udobreniy i insektofungitsidov (for Neugodova,
Khovanskaya).

(Soils—Calcium content)
(Soils—Magnesium content)

Khovanskaya, K.N.: Diseases of Cultivated Flours.

Khovanskaya, K.N.: Zem. Zool. Zhurn., No. 2, 1953, No. 5576

AUTHOR : Khovanskaya, K.N.
INST. : L'gov Experimental Selection Station
TITLE : Trying Out New Fungicides to Control Rust
In Grain Crops.

ORG. PUB. Byul. nauchno-tekhn. inform. L'govsk.
Opytno-sel'sk. st., 1953, vyp. 1, 61-64

ABSTRACT : The Laboratory of Phytopathology of L'gov station has studied, since 1953, the effectiveness of a number of fungicides to control rust in summer and winter wheat and in oats. Grancan and mercurin were most effective against wheat锈. These preparations can be used successfully for preplanting treatment of oat seeds against both loose and covered smut. Tithonia is effective against wheat rust and both kinds of oat smut, altho

CARD : 1/2

ACC NR: AP6036111

(A)

SOURCE CODE: UR/0365/66/002/006/0671/0677

AUTHOR: Kravchenko, T. G.; Zhuk, N. P.; Khodkin, V. I.; Belyayeskaya, G. M.;
Khovanskaya, L. L.

ORG: Moscow Institute of Steel and Alloys (Moskovskiy institut stali i splavov).

TITLE: Oxidation resistance of chromium and chromium-magnesium oxide alloys

SOURCE: Zashchita metallov, v. 2, no. 6, 1966, 671-677

TOPIC TAGS: chromium alloy, magnesium oxide containing alloy, dispersion-strengthened
alloy, chromium oxidation resistance, chromium alloy, oxidation resistance

ABSTRACT: Specimens of chromium and chromium-base alloys containing 5—9% magnesium oxide were prepared from VTU-1-54-grade chromium (99.9% pure) and pure magnesium oxide powders by cold compacting and sintering at 1500°C in a hydrogen atmosphere for five hr. Nil-porosity specimens were obtained by additional hot compacting at about 1300°C with a reduction of 80%. The specimens were then subjected to oxidation tests in an air atmosphere at 1200—1500°C for ten hr. It was found that the scale formed on chromium specimens at 1200—1500°C consisted of two layers, a thin, dense, inner layer of Cr₂N, and an outer layer of Cr₂O₃, which partially peeled off on cooling. Scale formed on chromium-magnesium oxide alloy specimens also consisted of two layers. The outer layer, in addition to Cr₂O₃, contained spinel MgCr₂O₄. At 1200°C and 1500°C, the oxidation rates of chromium and porous chromium-magnesium

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UDC: 669.26:620.193.5

ACC NR: AP6036111

oxide alloy were approximately equal. However, the oxidation rates of nil porosity specimens, containing 5% MgO tested at 1200C and 1300C were roughly 30 and 60% higher, respectively, than that of the nil-porosity, pure chromium. At 1400C and 1500C, magnesium oxide increased the oxidation rate in both porous and dense specimens. This can be explained by the fact that otherwise, the protective coating peels off easily in the case of chromium-magnesium oxide alloys. Orig. art. has: 3 figures and 5 tables.

SUB CODE: 11/ SUBM DATE: 03May65/ ORIG REF: 004/ OTH REF: 004/
ATD PRESS: 5106

Card 2/2

"APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000722310017-8

KHOVANSKAYA, M. G., KUSHKO, V. M., KULNEV, B. A. (USSR).

Tissue Respiration and Content of Phosphorus compounds in Experimental Atherosclerosis.

report presented at the 5th Int'l.
Biochemistry Congress, Moscow, 10-16 Aug. 1961

APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000722310017-8"

MERKULOV, M.F.; KHOVANSKAYA, M.G.

Tissue respiration and iodine metabolism in the thyroid gland of rats
after a single administration of antithyroid preparations. Farm. toks.
24 no.3:347-354 My-Je '61. (MIRA 15:1)

1. Kafedra farmakologii (zav. - prof. V.V.Vasil'yeva) i TSentral'naya
nauchno-issledovatel'skaya laboratoriya (zav. - dotsent E.M.Kogan)
2-go Moskovskogo gosudarstvennogo meditsinskogo instituta imeni
N.I.Pirogova. (THYROID GLAND) (IODINE IN THE BODY)
(IMIDAZOLE)

KHOVANSKAYA, M.G.

Fluorine content in potable waters of the Soviet Union.
S. N. Cherkinskii, E. M. Zaslavskaya, L. A. Mikhailovskaya, and M. G. KHOVANSKAYA. Collection. Materials, Akad. Nauk S.S.R., #1, 19-23 (1953).—A study of the F content in ground waters associated with geological deposits of various ages, of river waters, and reservoirs supplying potable waters in the Soviet Union. An attempt is made to correlate the F content with the incidence of endemic fluorosis (dark spots on tooth enamel serve as indexes of this condition) in different areas of the country J. S. Joffe

Central Sci. Res. Sanitary Inst. F. F. Ershman

PANCHENKO, L.P.; KHOVANSKAYA, M.G.

Oxidizing phosphorylation in the brain tissues of white rats
during the application of a tourniquet. Uch.zap. 2-go MGMI
17:181-185 '58. (MIRA 13:7)
(BLOOD--CIRCULATION, DISORDERS OF) (BRAIN)

KARPENKO, E.P.; KHOVANSKAYA, M.G.

Effect of penicillin on tissue respiration in healthy animals and in
animals in a state of shock. Antibiotiki 7 no.6:522-527 Je '62.
(MIRA 15:5)

1. Kafedra obshchey khirurgii (zav. - prof. V.A.Ivanov), TSentral'naya
nauchno-issledovatel'skaya laboratoriya (zav. E.M.Kogan) II Moskovskogo
meditsinskogo instituta imeni N.I.Pirogova.
(PENICILLIN) (SHOCK) (CELL METABOLISM)

CHESNOKOVA, S.A.; KHOVANSKAYA, M.G. (Moskva)

Content of ascorbic acid in the brain of rats following
cerebral decortication. Pat. fiziol. i eksp. terap 7 no.1:
79 Ja-F'63. (MIRA 16:10)

1. Iz kafedry fiziologii (zav. - prof. G.I.Mositskiy) II
Moskovskogo meditsinskogo instituta imeni N.I.Pirogova.
(ASCORBIC ACID) (CEREBRAL CORTEX)

KAZANTSEV, F.N.; KHOVANSKAYA, M.G.

Some indicators of changes in the sympathetic-adrenal system
during experimental surgery under intratracheal ether-oxygen
and potentialized anesthesia. Eksper. khir. i anest. 8 no.3:89-92
My-Je '63 (MIRA 17:1)

1. Iz Moskovskoy kliniki obshchey khirurgii (zav. - prof. G.P.
Zaytsev) pediatriceskogo fakul'teta i TSentral'noy nauchno-
issledovatel'skoy laboratorii (zav. - dotsent E.M.Kogan) II
Moskovskogo meditsinskogo instituta.

KUSHMANOVA, O.D.; KHOVANSKAYA, M.G.; SHUL'GA, V.A.

Modified content of ascorbic acid in the adrenal glands in rats
during the development of tourniquet shock in the presence of
various physiological states of the central nervous system.
Pat. fiziol. i eksp. terap. 8 no.4:64-65 Jl-Ag '64.

(MIRA 18:2)

1. Kafedra biokhimii (zav.- chlen-korrespondent AMN SSSR prof.
A.A. Pokrovskiy) II Moskovskogo meditsinskogo instituta imeni
Pirogova.

KOGAN, E.M.; SMAZHNOVA, N.A.; KHOVANSKAYA, M.G.

Respiration, aerobic and anaerobic glycolysis in the intact
and denervated lung tissue of cats. Izv. AN Arm. SSR. Biol.
nauki 17 no.10:65-73 O '64. (MIRA 18:8)

1. Tsentral'naya nauchno-issledovatel'skaya laboratoriya i
kafedra gistolozii 2-go Moskovskogo gosudarstvennogo meditsinskogo
instituta im. N.I.Pirogova, Moskva.

SABUROVA, I.V.; BALABA, T.Ya. (Moskva B-64, Basmannyy tupik, d.6-a, kv.26);
KHOVANSKAYA, M.Q.

Abstract. Ortop., travm. i protez. 25 no.11:85 N '64.
(MIRA 18:11)

1. TSentral'nogo instituta travmatologii i ortopedii (dir. -
chlen-korrespondent AMN SSSR prof. M.V. Volkov), Moskva.
Submitted March 14, 1964.

KHOVANSKAYA, M.S.

Biological activity of combined tinctures of poplar and birch
buds. Antibiotiki 6 no.4:368-369 Ap '61. (MIRA 14:5)

I. Kafedra biologii (zav. E.M.Zubina) Vitebskogo meditsinskogo
instituta.
(EXTRACTS) (TRICHOMONAS) (WOUNDS--TREATMENT)

L 39007-66	ENTOMOLOGIJA I ZOOLOGIJA	RU/620.17
ACC NR:	AP6003948	SOURCE CODE: UR/0374/65/000/005/0128/0134
AUTHOR: <u>Shlenskiy, O. F. (Moskva)</u> ; <u>Khovanskaya, N. N. (Moskva)</u> ; <u>Lavrent'yev, V. V. (Moskva)</u>		
ORG: none		
TITLE: Method for comprehensive study of the mechanical properties of polymer films		
SOURCE: Mekhanika polimerov, no. 5, 1965, 128-134		
TOPIC TAGS: polymer, polyethylene plastic, photographic film, anisotropic medium, time, temperature dependence, poisson effect		
ABSTRACT: Testers for determining the coefficients of lateral contraction of anisotropic film materials depending on the time and temperature are described. The test results of the polyethelene films are reported. Orig. art. has: 9 figures, 4 formulas, and 1 table. [Based on author's abstract]		
SUB CODE: 11 SUBM DATE: 11Jan65/ ORIG REF: 002/ OTH REF: 002/ ATD PRESS:		
Card 1/1//L7 UDC: 678:620.17		

"APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000722310017-8

KHOVANSKAYA, S.S.

Infrared drying of popped products. Kons. i ov.prom. 19 no.1;41-42
(MIRA 17:2)
Ja '64.

APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000722310017-8"

KHOVANSKIY, A. I.; MEDVEDEVA, Ye. A., kand. med. nauk; GERSHOV, Z. S.,
kand. med. nauk.

Organizing measures for eliminating favus in the Bashkir A.S.S.R.
(MIRA 15:2)
Vest. derm. i ven. no.2:62-64 '62.

1. Iz Ufimskogo nauchno-issledovatel'skogo kozhno-venerologicheskogo
instituta (dir. P. N. Shishkin)

(BASHKIRIA—FAVUS)

KH.VANSKIY, A. N.

Obozrenie obobshchenii integral'nogo uravneniya Abel'ya. DAN,
50 (1945), 69-70.

So: Mathematics in the USSR, 1917-1947
edited by Kurosh, A. G.
Markushevich, A. I.
Rashevskiy, P. K.
Moscow-Leningrad, 1948

KHOVANSKIY, A. N.

Smolyakov, P. T. and Khvovanskiy, A. N. - "On the solution of third-order algebraic equations", Izvestiya Kazansk. filiala (Akad. nauk SSR), Seriya fiz.-mater. i tekhn. nauk, Issue 1, 1948, p. 85-92.

SO: U-3042, 11 March 53, (Letopis 'Zhurnal 'nykh Statey, No. 8, 1949).

KHOVANSKIY, A. N.

Khovanskiy, A. N. - "Certain identities connected with Bernculli's numbers", Izvestiya Kazansk. filiala (Akad. nauk SSR), Seriya fiz.-matem. i tekhn. nauk, Issue 1, 1948, p. 93-94, - Bibliog: 6 items.

SO: U-3042, 11 March 53, (Letopis 'Zhurnal 'nykh Statey, No. 8, 1949).

KHOVANSKIY, A. N.

Khovanskiy, A. N. - "A numerical solution of a single nonlinear differential equation", Izvestiya Kazansk. filiala (Akad. nauk SSSR), Seriya fiz.-matem. i tekhn. nauk, Issue 1, 1948, p. 95-98.

SO: U-3042, 11 March 53, (Letopis 'Zhurnal 'nykh Statey, No. 8, 1949).

KHOVANSKIY, A. N.

21339 SALEKHOV, G. S. I KHOVANSKIY, A. N. B. M. Gagiev. (Matematik. k 25-Letiyu
Nauch. Ped. Deyatel'nosti) Uspekhi Matem. nauk, 1949, Vyp. 3 S. 177-79
S. Portr.

SO: Letopis' Zhurnal'nykh Statey, No. 29, Moskva, 1949.

KHOVANSKII, A. N.

Sources: *Mathematical Reviews*, 1950, Vol. 11, No. 1.

Cebotarev, N. G., and Mel'man, N. N. The Routh-Hurwitz problem for polynomials and entire functions. Appendix, by G. S. Bardin and A. N. HOVANSKII. Real quasipolynomials, with π . 3. 5-1. Trudy Mat. Inst. Steklov 26, 311 pp. (1949). (Krasnoyarsk.)

The Routh-Hurwitz problem is the problem of finding conditions on the roots of a polynomial to lie in a half plane.

This monograph contains two chapters by Cebotarev, one on the original Routh-Hurwitz problem, and generalizations to the case where a specified number of zeros lie in a half plane, and the other on the problem for quasipolynomials, which are expressions of the form $\sum_{k=0}^m a_k(z)e^{kz}$ with real a_k and polynomial $a(z)$. The rest of the book (except the Appendix) is by Mel'man and deals with generalizations of the Routh-Hurwitz problem to entire functions, with some other results on the zeros of entire functions, and with preliminary material. Much of the material is more or less available in the periodical literature.

The first chapter is an account, mainly algebraic, and partly based on work by Yu. I. Neimark. Summarized in Doklady Akad. Nauk SSSR (N.S.) 58, 357-360 (1947); 10, 853-856 (1948); these Rev. 9, 348, 446; of the generalized Routh-Hurwitz problem for polynomials. A final section by Mel'man treats the Nyquist diagram, also making use of work of Neimark. Chapter 2 contains miscellaneous results from the general theory of functions. Chapter 3 is a concise introduction to the theory of entire functions in general and functions of exponential type, in particular.

Mel'man's principal objective is to generalize the Hermite-Biehler theorem (that the roots of $g(z) + ih(z)$ are all on the same side of the real axis when $g(z)$ and $h(z)$ are polynomials with real coefficients, if and only if the zeros of g and h are real and interlacing), and the Hermite determinant criterion. It turns out that the most general class to which the Hermite-Biehler theorem can be extended is the class B of entire functions $F(z) = g(z) + ih(z)$, g and h real on the real axis, with $\limsup |F(z)| F'(z)| \leq 1$ uniformly in x as $y \rightarrow +\infty$.

TOP SECRET CRYPTOGRAPHY SECTION

A large number of theorems concerning analytic and Borel sets are proved, of which the following may be taken as typical: (1) In a compact Hausdorff space satisfying condition (B), every pair of disjoint analytic sets are contained in a pair of disjoint Borel sets. (2) In a compact Hausdorff space satisfying condition (B), an analytic set whose complement is analytic is a Borel set. (3) In a compact Hausdorff space satisfying condition (B), an analytic set is a Borel set if and only if it is representable by means of disjoint summands. (4) Every zero-dimensional compact Hausdorff space which is dense in itself and satisfies condition (B) contains an analytic set which is not a Borel set. (5) If X is a completely regular space such that X is an F_σ -set in δX , then X is an F_σ -set in every compact Hausdorff space containing X as a dense subspace. (6) Let f be a continuous mapping carrying a space X satisfying the hypotheses of (5) into a compact Hausdorff space Y . Then $f(X)$ is an F_σ -set in Y . Finally, generalized notions of Borel set and analytic set are introduced, the ordinary countable operations being replaced by unions and intersections of larger families of sets and a corresponding generalization being presented for the operation (A). Some of the results obtained for ordinary Borel and analytic sets are extended to these more general cases.

E. Hewitt (Seattle, Wash.).

S. M. S.

KHOVANSKIY, A. N.

11 Mar 53

USSR/Geophysics - Filtration, Equations

"Derivation of Principal Equations of Filtration of Elastic Fluid in Elastic Porous Medium," A.N. Khovanskiy, Phys-Tech Inst, Kazan Affil, Acad Sci USSR

DAN SSSR, Vol 89, No 2, pp 241-244

Derives and solves the eqs and computes parameters. Presented by Acad A. I. Nekrasov. Recd 24 Mar 52.

Source #264T83

KHOVANSKIY, A. N., IVANOV, N. F., DANILOV, V. L. and SALENKOV, G. S.

"The Question of Irrigation of Rock-Oil Wells in Strata With Sole Water",
Iz. Kazan Fil. AS USSR, 5th edition, 1954.

NOVAKOVSKY, A. N.

"The Calculation of the Reestablishment of the Pressure Exerted by Mining Operations After the Closing-Down of an Oil Well", Iz. Kazan Fil. AS USSR,
5th edition, 1954.

SAL'EKHOV, G.S.; DANILOV, V.L.; IVANOV, N.P.; KHOVANSKIY, A.N.

Flooding of oil wells having bottom water strata. Izv. Kazan. fil. AN
SSSR. Ser. fiz.-mat. i tekhn. nauk no.5:16-39 '54. (MIRA 8:7)

1. Fiziko-tehnicheskiy institut Kazanskogo filiala AN SSSR.
(Oil field flooding)

KHOVANSKIY, A.N.

Calculating the regeneration of well shaft pressure after closing the
well. Izv. Kazan. fil. AN SSSR. Ser. fiz.-mat. i tekhn. nauk no.5:70-76
'54. (MLRA 8:?)

1. Fiziko-tehnicheskiy institut Kazanskogo filiala AN SSSR.
(Bessel's Functions) (Petroleum engineering)

KHOVANSKIY, Aleksey Nikolayevich; LAPKO, A.F., redaktor; TUMARKINA,
N.A., tekhnicheskiy redaktor

[Application of continued fractions and their generalizations
to problems of approximate analysis] Prilozhenie tsenonykh
drobei i ikh obobshchenii k voprosam priblizhennogo analiza.
Moskva, Gos. izd-vo tekhniko-teoret. lit-ry, 1956. 203 p.

(MLRA 10:4)

(Fractions, Continued)

KHOVANSKIY, A. N.

Transactions of the Third All-union Mathematical Congress (Cont.)
Call Nr: AF 1108825
Jun-Jul '56, Trudy '56, V. 1, Sect. Rpts., Izdatel'stvo AN SSSR, Moscow,
Mention is made of Fedorenko, B. V., Modzalevskiy, L. B.,
Andronov, A. A. and Privalova, N. I.

Smirnov, S. V. (Moscow). An Indian XVI Century Astrolabe. 235-236

Smirnov, V. I. (Leningrad). The Scientific Archives of
A. M. Iyapunov on the Stability and the Theory of Ordinary
Differential Equations.

236

Khovanskiy, A. N. (Ioshkar-Ola). The Works of Euler on
the Theory of Continued fractions.

236-237

Mention is made of Viskovatov, V.

AVAILABLE: Library of Congress

Card 80/80

Khovanskiy, A.N.

16(1), 16(2)

AUTHORS: Leonidov, K.S., and Rakova, E.S. SOV/42-14-1-27/27

TITLE: New Publications on Applied Analysis and Numerical Mathematics
(Novyye izdaniya po prikladnomu analizu i vychislitel'noy
matematike)

PERIODICAL: Uspekhi matematicheskikh nauk, 1959, Vol 14, Nr 1, pp 261-265 (USSR)

ABSTRACT: It is stated that in the USSR there exists no periodical on numerical mathematics and similar domains. The papers of these domains chiefly appear in the series "Publications on Applied Analysis and Numerical Mathematics" (BPAVM) and in single collected volumes. The series BPAVM began in 1955 and until now it contained the following monographies: 1. G.S. Salekhov "Calculation of Series"; 2. A.N. Khovanskii "Application of Continued Fractions in the Approximate Analysis"; 3. V.S. Ryaben'kiy, A.F. Filippov "Stability of Difference Equations"; 4. G.S. Khovanskii "Nomograms"; 5. S.M. Nikol'skiy "Quadrature Formulas"; 6. M.A. Kartsev "Arithmetic Devices of Electronic Digit Apparata"; 7. Yu.V. Vorob'yev "Momentum Method in Applied Mathematics"; 8. Ye.A. Zhogolev, G.S. Roslyakov, N.P. Trifonov, M.R. Shura-Bura "System of Standard-Subprograms". There appeared the following collected volumes: "Numerical

Card 1/3

New Publications on Applied Analysis and
Numerical Mathematics

SOV/42-14-1-27/27

Mathematics and Computing Technics" (VMVT) since 1953, "Numerical Mathematics" (VM) since 1957, and "Computing Technics" (VT) since 1958. Until now two volumes of VMVT appeared with contributions of V.A.Ditkin, L.A.Lyusternik, A.I.Ivanova, A.A.Abramov, M.R. Shura-Bura, V.I.Shestakov, A.I.Vzorova, G.S.Khovanskiy, L.V. Bochek, Ye.N.Dekanosidze, L.N.Karamzina, V.K.Saul'yev, I.M. Stesin, M.A.Tomson, L.I.Gutenmakher, G.K.Kuz'minok, L.S.Klabukova. The published three volumes of VM contained contributions of L.A.Lyusternik, Yu.V.Verob'yev, Ye.A.Volkov, V.K.Saul'yev, I.M.Stesin, A.I.Vzorova, Ya.I.Alikhashkin, G.S.Khovanskiy, S.P. Kapitsa, M.R.Shura-Bura, P.I.Chushkin, O.N.Katskova, Yu.D. Shmyglevskiy, V.S.Linskiy, M.G.Rappoport, B.M.Drozdov, A.G.Gesse, V.S.Vladimirov, L.S.Klabukova, A.I.Vzorova, I.M.Sobol', V.K. Kabulov, O.N.Belotserkovskiy. The first volume of VT contains contributions of O.K.Shcherbakov, F.V.Mayorov, P.P.Golovistikov, Ye.A.Volkov, L.N.Korolev, N.Ya. Matyukhin, O.V.Rosnitskiy, Yu.N. Glukhov, Ye.I.Mamonov. Besides in 1958 Yu.Ya.Bazilevskiy edited the collected volume "Questions of the Theory of Mathematical Machines" ("Voprosy

Card 2/3

24

New Publications On Applied Analysis and
Numerical Mathematics

SOV/42-14-1-27/27

teorii matematicheskikh mashin") with contributions of Yu.Ya.
Bazilevskiy, I.Ya.Akushskiy, Yu.A.Shreyder, E.A.Gluzberg, I.M.
Vitenberg, B.I.Rameyev, V.S.Linskiy, L.A.Kozharskiy.

Card 3/3

USCOM-DC-60,919

KHOVANSKIY, A.N.
KHOVANSKIY, A.N.

L. Euler's work in the theory of continued fractions. Ist.-mat. issl.
no.10:305-326 '57. (MIRA 11:1)
(Euler, Leonhard, 1707-1783)
(Fractions, Continued)

SOV/58-4-3182

Translation from: Referativnyy zhurnal, Matematika, 1958,
Nr 4, p 118 (USSR)

AUTHOR: Khovanskii, A.N.

TITLE: An Application of Normal Coordinates to the Geometry of a
Triangle (Primeneniye normal'nykh koordinat k geometrii
treugol'nika)

PERIODICAL: Uch. zap. Mariysk. gos. ped. in-ta, 1957, Nr 12,
pp 73-88

ABSTRACT: Applying normal coordinates (the distance of a point
from three sides of a triangle), the author derives a series of
theorems and formulas of the geometry of a triangle, determines
the distance between significant points of the triangle, and
finds the equations of an inscribed and a circumscribed circle.
Special attention is given to the triangle of projection.

Card 1/1

S.I. Zetel'

"APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000722310017-8

GAYDUK, Yu.M. (Khar'kov); KHOVANSKIY, A.N. (Yoshkar-Ola).

Short survey of studies in triangle geometry. Mat. v shkole no.5:
50-58 S-0 '58. (MIRA 11:10)
(Triangle)

APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000722310017-8"

GAYDUK, Yu.M. (Khar'kov); KHODAVERDIY, A.N. (Yoshkar-Ola)

Short survey of studies in triangle geometry. Mat. v shkole
no. 6:70-79 N-D '60. (MIR 14:2)
(Triangle)

DANILOV, V.L.; IVANOVA, A.N.; ISAKOVA, Y.K.; LYUSTERNIK, L.A.; SALEKHOV,
G.S.; KHOVANSKIY, A.N.; TSLAF, L.Ya.; YANPOL'SKIY, A.R., dots.; LAPKO,
A.F., red.; KRYUCHKOVA, V.N., tekhn. red.

[Mathematical analysis; functions, limits, series, continued fractions]
Matematicheskii analiz; funktsii, predely, riady, tsenzye
drobi. Moskva, Gos. izd-vo fiziko-matem. lit-ry, 1961. 439 p.
(MIRA 14:8)

1. Chlen-korrespondent AN SSSR (for Lyusternik).
(Mathematical analysis)

SMYSHLYAYEV, V.K.; KHOVANSKIY, A.N. (Yoshkar-Ola)

Historic mathematical quiz. Mat.v shkole no.5:66-74 S-0 '62.
(MIRA 15:12)
(Mathematics—Problems, exercises, etc.)

KHOVANSKIY, A.P.

PRIKHOT'KO, A.F.

24(7) p-3 PHASE I BOOK EXPLOITATION 80V/1365

L'vov. Universitet

Materijali X Vsesoyuznogo soveshchaniya po spektroskopii. t. 1:
 Molekulyarnaya spektroskopiya (Papers of the 10th All-Union
 Conference on Spectroscopy. Vol. 1: Molecular Spectroscopy)
 [L'vov] Izd-vo L'vovskogo univ-ta, 1957. 499 p. 4,000 copies
 printed. (Series: Itse: Pizichnyy sbirnyk, vyp. 3/8/)

Additional Sponsoring Agency: Akademiya nauk SSSR. Komissiya po
 spektroskopii. Ed.: Gazer, S.L.; Tech. Ed.: Saranyuk, T.V.;
 Editorial Board: Landisberg, G.S., Academician (Resp. Ed., Deceased),
 Reporen, B.S., Doctor of Physical and Mathematical Sciences,
 Fabelinskiy, I.L., Doctor of Physical and Mathematical Sciences,
 Fabrikant, V.A., Doctor of Physical and Mathematical Sciences,
 Kornitakiy, V.U., Candidate of Technical Sciences, Rasyckiy, J.M.,
 Candidate of Physical and Mathematical Sciences, Khomovskiy, L.K.,
 Candidate of Physical and Mathematical Sciences, Miliyanchuk, V.I.,
 Candidate of Physical and Mathematical Sciences, and Glueberman,
 A. Ye., Candidate of Physical and Mathematical Sciences.

Card 1/30

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Pevlovskaya, T. Yu., and A.G. Pastryakin. Variation in Absorption Spectra of Protein Solutions Due to Ionizing Radiation in Air and in Vacuum	235
Levshin, L.V., and A.P. Khrenanskiy. Spectroscopic Study of the Ionization of Molecules of Aromatic Compounds	240
Karyakin, A.V., and A.V. Shabliya. Infrared-spectro- graphic Study of the Sensitization of the Photo- oxidation of Organic Compounds by Means of Anthraquinone Derivatives	243

Card 1640

KHOVANSKIY A.P.

AUTHORS: Levshin, L. V. and Khovanskiy, A. P. 51-6-9/26

TITLE: Study of the Ionisation of Molecules of Acridine and its Derivatives using Luminescence Spectra. (Issledovaniye ionizatsii molekul akridina i ego proizvodnykh po spektram lyuminestsentsii)

PERIODICAL: Optika i Spektroskopiya, 1957, Vol.II, Nr.6, pp. 747-754. (USSR)

ABSTRACT: In acid solutions molecules of acridine compounds are ionised and, since their碱alinites are not the same, the degree of ionisation for a given value of pH will differ from one compound to another. Using luminescence spectra the ionisation of acridine and five of its derivatives: 1-, 2-, 3-, 9-monoaminoacridines and 3,6-diaminoacridine, was studied. The luminescence spectra were measured photoelectrically using a glass spectrograph. Luminescence was excited with 436 and 365 $\text{m}\mu$ lines from a mercury lamp. The absorption spectra were measured using a quartz spectrophotometer. Dependence of the luminescence spectra in the region

Card 1/2

51-6-9/26
Study of the Ionisation of Molecules of Acridine and its Derivatives
using Luminescence Spectra.

400 to 660 $\text{m}\mu$ on pH for the substances studied is given in Figs.1, 2, 3, 4 and 6. Fig.5 shows the absorption spectra of double ions of 9-aminoacridine and acridinium in the region 220 to 460 $\text{m}\mu$. The degree of ionisation and its dependence on pH was found for each compound studied from its luminescence spectrum. The results obtained for 9-aminoacridine support acridonimine structure for that molecule. The authors thank Professor A. M. Grigorovskiy for his advice and a supply of the substances studied, and Z. A. Barmina for help in experiments. There are 6 figures, 21 structural formulae and 12 references, 7 of which are Slavic.

ASSOCIATION: Moscow State University. (Moskovskiy gosudarstvennyy universitet.)

SUBMITTED: November 19, 1956.

AVAILABLE: Library of Congress.
Card 2/2

KHOVANSKIY, A.V.

For the further reduction and elimination of infectious diseases in
the White Russian S.S.R. Zdrav.Bel. 8 no.5:6-8 My '62.

1. Nachal'nik Sanitarno-epidemiologicheskogo upravleniya Ministerstva
zdravookhraneniya BSSR.

(WHITE RUSSIA—COMMUNICABLE DISEASES—PREVENTION)

PHASE I BOOK EXPLOITATION

SOV/5516

Khovanskiy, Dmitriy Petrovich

Kompleksnaya mekhanizatsiya i avtomatzatsiya proizvodstvennykh protsessov
v mashinostroyenii (Full Mechanization and Automation of Production
Processes in Machinery Manufacture) Moscow, Izd-vo VPSh i AON pri TsK KPSS,
1960. 61 p. 5,600 copies printed.

Sponsoring Agency: Zaochnaya vysshaya partiynaya shkola pri TsK KPSS.
Kafedra osnov promyshlennogo proizvodstva i stroitel'stva.

Ed.: A.G. Kokoshko; Tech. Ed.: K.M. Naumov.

PURPOSE: This textbook is intended for Party and Soviet activists and students
engaged in the independent study of the problems of full mechanization and auto-
mation of manufacturing processes.

COVERAGE: The book supplements Part Two of a previously published textbook for
the course "The Technology of the Most Important Branches of Industry".
Concepts, problems, and methods concerning the development of full mechani-
zation and automation in machine building are discussed. Attention is given
Card 1/4.

Full Mechanization and Automation (Cont.)

sov/5516

to the characteristics of automatic production lines, and to a consideration of the economic effectiveness of mechanization and automation of manufacturing processes. No personalities are mentioned. There are 20 references, all Soviet.

TABLE OF CONTENTS:

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1. Partial and full automation	5
2. Partial and total (or full) automation	6
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1. Improvement of production coordination	10
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	20

Card 2/4

KHOVANSKIY, Dmitriy Petrovich; KUKHAYEV, P.T., red.

[Distribution of surplus value among the various groups
of capitalists] Raspredelenie pribavochnoi stoinosti
mezhdu razlichnymi gruppami kapitalistov. Moskva, Izd-vo
VPSH i AON pri TsK KPSS, 1963. 75 p. (MIRA 16:5)
(Value)

KHOVANSKIY, D.V.

USSR/Pharmacology, Toxicology. Chemotherapeutical Preparations

V-7

Abs Jour : Ref Zhur - Biol., No 5, 1958, No 23431

Author : Khovanskiy D.V.

Inst : Not Given

Title : Some Complications in Antibiotic Therapy

Orig Pub : Vrachebn. dyelo, 1957, No 2, 155-158

Abstract : The author observed 10 cases, in which death occurred as a result of antibiotic treatment. Four patients developed a sharp allergic reaction with the emergence of many blisters, eritematose rash, papules in various parts of the body which were sources of secondary infection. Five patients died as a result of an increase of purulent bacteria. One case of successful streptomycin therapy of lung tuberculosis was described, when 6 days following the end of the treatment sepsis set in, which resulted in death on the tenth day. The author also described two cases of permanent deafness in a 15 year old boy and a 70 year old man, which occurred after streptomycin therapy.

Card : 1/1

"APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000722310017-8

~~KHOVANSKIY, G., kandidat tekhnicheskikh nauk.~~

Nomographs for computing delivery conduits according to
P.A. Shavelev's formulas. Zhil.-kom.khoz. 6 no.7:21-22
'56.

(Water pipes) (Shavelev, P.A.)

APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000722310017-8"

KHOVANSKIY, G.

Make yourself a welding apparatus. IUn tekhn. 6 no.12:49-50 D
'61. (MIRA 14:12)
(Electric welding)

KHOVANSKIY, Gleb Georgiyevich; SOBOLEVSKIY, A.G., red.; LARIONOV, G.Ye.,
tekhn.red.

["Neva" magnetic tape recorder] Liubitel'ski magnitofon
"Neva." Moskva, Gos.energ.izd-vo, 1959. 23 p. (Massovaia
radiobiblioteka, no.351) (MIRA 13:1)
(Magnetic recorders and recording)

KHOVANSKIY, G. S.

USSR/Engineering - Hydraulics

Jan 51

"Nomographic Method for Calculating the Curves of Open Flow Surface in Simple Prismatic Waterways," G. S. Khovanskiy, Engr

"Gidrotekh Stroi" No 1, pp 37-39

Method is based on selection of such a manner for integrating the basic eq of steady nonuniform slowly varied flow of water in prismatic channels, that the formulas for free surface curves may be represented in nomographs constructed from mean points. Nomographs give geometrical interpretation to the laws of hydraulics of nonuniform motion and represent a convenient calcg device.

1997-1

KHOVANSKIY, G. S.

USSR/Engineering - Hydraulics, Pipes Jul 51

"Nomograph for Hydraulic Calculation of Round Pipes," G. S. Khovanskiy, Engr

"Gidrotekh Stroi" No 7, pp 40-43

Develops nomographic chart which considerably facilitates hydraulic calcns of round pipes in conformity with complete formula, developed by Acad. N. N. Pavlovskiy for Chezy coeff "C". Presents nomograph and illustrates its use by examples.

199T65

696. Khovanskii, G. S., Suitable sections of trapezoidal channels for given side slopes (in Russian), *Gidrotekh. i Melior.* no. 9, 33-35, Sept. 1963.

Tolerance of departure from so-called best hydraulic section is discussed; a formula and nomogram are developed.

S. Kolspala, USA

KHOVANSKIY, G.S.

KHOVANSKIY, G.S.; ROYER, G.N., kandidat tekhnicheskikh nauk, redaktor;
KORNOV, Ye.V., redaktor; ZEMLYAKOVA, tekhnicheskiy redaktor.

[A collection of nomograms for the hydraulic calculation of trapezoid canals according to the full formula of professor N.N.Pavlovskii] Atlas nomogramm dlia gidravlicheskogo rascheta trapezoidal'nykh kanalov po polnoi formule akademika N.N.Pavlovsogo. Moskva, Izd-vo Akademii nauk SSSR, 1954. 24 nomograms, 1 diagr. (in portfolio). [Text.] 25 p.
(Nomography (Mathematics)) (Canals)

(MIRA 8:4)

KHEVANSKIY, G. S.

USSR

1707. Khevanskii, G. S., Transparent nomogram for design
of pipelines (in Russian), *Gidrotékh. Stroit.* 23, 3, p. 48, Mar. 1954.
Sliding scale for direct reading on the grid, based on formula
by Pavlovskii in its complete form. Convenient for usual com-
putations. S. Kolupaila, USA

BT

KHOVANISKIY, G.S.

Nomograph for the determination of the log-mean temperature differences. O. S. Khovanskiy. Neftyanoye Rzros.
32, No. 7, 69(1954).—A nomograph is constructed for
use in the design of condensers and heat exchangers. In
use in the petroleum industry. W. M. Sternberg

6/15/55

KHOVANSKIY G. S.

KHOVANSKIY, G. S.
"A Method of Drawing Nomograms on Ruled Paper and Its Application to Nomographing Hydraulic Computations." Cand Tech Sci, Inst of Precision Mechanics and Calculating Techniques, Acad of Science USSR, Moscow, 1955. (KL, No 8, Feb 55)

SO: Sum. No. 631, 26 Aug 55-Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (14)

KHOVANSKIY, G.S.; DITKIN, V.A., redaktor; DOBROSMYSLOV, A.A., redaktor

[Nomograms for determining critical depths in trapezoidal channels] Nomogrammy dlja opredelenija kriticheskoi glubiny v trapetsoidal'nykh kanalakh. Moskva, Izd-vo Akademii nauk SSSR, 1955. 3 graphs 5 p. (MIRA 9:3)
(Homography (Mathematics))

KHOVANSKII, G. S.

Hovanskii, G. S. A method of construction of nomograms with oriented transparencies. Vycisl. Mat. Vycisl. Tehn. 2 (1955), 3-93. (Russian)

This paper provides practical methods for constructing nomograms with a movable plane that can be attached to a drafting machine or used with a T-square. This plane carries only scales (graduated or ungraduated) or fixed points. The systems of equations representable in this way

$$\begin{aligned} l_{12} - l_2 &= l_{34} - l_3 = l_{56} - l_5 \\ s_{12} - s_2 &= s_{34} - s_3 = s_{56} - s_5 \end{aligned}$$

are specialized in various ways to obtain the most adaptable standard forms. A mnemonic is developed and in a given case it is applied to first write the simplest form of the equations for the scales and binary fields to produce a schematic. The equations are then expanded to contain transformation parameters. Twenty-nine tables of equa-

11
12

Hovanskii, G. S.

tions are given for the forms considered. Optimal choice
of the parameters and their geometric significance receive
attention. Comparisons are made with some of the ca-
nonical forms for alignment charts. Five applications are
presented in detail. R. Church (Monterey, Calif.)

*3
2
2
Pagen
back*

KHOVANSKIY, G.S., inzhener

Nomogram for calculating pressure loss in piping. Teploenergetika 2 no.2:54-57 F '55.
(MLB 8:9)

1. Institut tochnoy mekhaniki i vychislitel'noy tekhniki AN SSSR
(Pipe) (Pressure (Physics))

KHOVANSKIY,G.S.

Homographic method of calculating the combined operation of pump
and water pipes. Vod.i san.tekh. no.6:14-17 S'55. (MLRA 9:1)
(Water pipes)

KHOVANSKIY, G.S.

AID P - 1762

Subject : USSR/Hydraulic Engineering Construction

Card 1/1 Pub. 35 - 21/21

Author : Khovanskiy, G. S.

Title : Nomographic chart for hydraulics computing of circular conduits without pressure

Periodical : Gidr. stroi., v.24, no.2, 48, 1955

Abstract : A mathematical analysis of computing conduits is suggested, and the advantages of using charts are stressed.
Chart attached.

Institution: None

Submitted : No date

124-1957-1-475

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 1, p 60 (USSR)

AUTHOR: Khovanskiy, G. S.

TITLE: Method for the Calculation of the Time Required for Emptying Portions of a Water Main (Metod racheta prodolzhitel'nosti oporozhneniya uchastkov vodovoda)

PERIODICAL: Vodosnabzheniye i san. tekhnika, 1956, Nr 3, pp 12-18

ABSTRACT: In order to determine the time required for emptying a water main, the conduit is divided into those upwardly and downwardly sloping portions in which the free surface changes height during the draining process, and into intermediate portions having a constant cross-sectional area. The calculations utilize a special nomogram prepared by the Author.

P.G. Kiselev

1. Water--Drainage--Analysis 2. Time--Applications

Card 1/1

KHOVANSKIY, G. S.

Book--3333. Khevanskii, G. S., Nomographic solutions in hydraulics [Nomograficheskie resheniya v gidraulike], Moscow, Acad. Sci., 1936, 116 pp. + 71 plates. \$4.
A set of 107 large-scale (15 x 12-in.) nomograms permits direct solutions of many actual problems of hydraulic engineering. Among them are nomograms for selection of pumps for water supply and sewage plants, for empysing of pipelines, for friction losses in circular pipes, for designing of trapezoidal canals, for the best hydraulic cross section, for derivation of backwater and drop-down curves in trapezoidal channels at horizontal bottom only. Nomograms are mostly of alignment-chart type; many need a clear index for use. They are well developed and convenient for reading. Nomograms are of interest for hydraulic engineers, although they are mostly in metric units. S. Kefupella, USA

MT

KHOVANSKIY, G.S.

Method of calculating the length of time needed to empty pipeline
sections. Vod.i san.tekh.no.3:12-18 Mr '56. (MLRA 9:7)
(Water pipes)

KHOVANSKIY, G. S. KHOVANSKIY, G. S.

✓ 1315. Nomogram for calculation of pipelines at turbulent and
laminar flow conditions. G. S. Khovalsky
1930. (8), 53-6 — A nomogram is given, with an explanation of
the basis thereof and method of use. This nomogram applies to
both gases and liquids and is designed especially for when the
nature of the flow (i.e. turbulent or laminar) is not known, as
this may be determined from the nomogram. V. R.

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KHOVANSKIY, G.S., kandidat tekhnicheskikh nauk.

Graphic nomogram for the hydraulic calculations of circular pressure
pipes. Rats. i izobr. predl. v stroi. no.129:9-10 '56. (MLRA 9:9)
(Waterpipes)

"APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000722310017-8

KHOVANSKIY, G.S., kandidat tekhnicheskikh nauk.

Graphic nomogram for the hydraulic calculation of circular pressureless pipes. Rats. i izobr. predl. v strel. no.129:11-13 '56. (MLRA 9:9)
(Pipe)

APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000722310017-8"

PHASE I BOOK EXPLOITATION 980

Khovanskiy, Georgiy Sergeyevich

Nomogrammy s oriyentirovannym transparantom (Nomograms With Oriented Movable Scales) Moscow, Fizmatgiz, 1957. 203 p. (Series: Biblioteka prikladnogo analiza i vychislitel'noy matematiki) 4,000 copies printed.

Ed.: Nevskiy, B.A.; Tech. Ed.: Gavrilov, S.S.; Ed. of Series: Sobolev, S.L., Academician, Head, Dept. of Computer Mathematics, Moscow University.

PURPOSE: This book may be useful to engineers and specialists in all branches of engineering and industry, and in mathematics, physics, chemistry and other fields in which mathematical formulas are frequently used.

COVERAGE: The book is an extension and generalization of previous studies made by the author and is concerned with practical methods

~~Card 1/16~~

Nomograms With Oriented Movable Scales

980

of the construction of nomograms with oriented movable scales. The book consists of six chapters. In Chapter I, the principles of the construction of nomograms with oriented movable scales for the most general case (system of four equations with nine variables) are presented. Chapter II discusses the construction of nomograms with oriented movable scales for particular cases of canonical equations, which are very important in practice. The next three chapters deal with nomograms with oriented movable scales for equations with three, four, five and six variables. In Chapter VI, particular cases of the construction and application of nomograms with oriented movable scales are analyzed. Chapter VI also includes approximate constructions of nomograms with oriented movable scales, application of such nomograms to the selection of the parameters of empirical equations, use of binary fields of nomograms as functional networks, and construction of split nomograms. At the end of the book is given a summary of canonical forms of equations which can be represented by nomograms with oriented movable scales. The author thanks

Card 2716

Nomograms With Oriented Movable Scales 980

L.A. Lyusternik, Corresponding Member of the Academy of Sciences, USSR, for the attention he gave to this work, individual parts of which were presented during the period 1951-1953 at a seminar he conducted at the Institut Tochnoy mekhaniki i Vychislitel'noy tekhniki AN SSSR (Institute of Precision Mechanics and Computing Technique, Academy of Sciences, USSR). The author also thanks T.V. Firsova for drawing the nomograms contained in the book. There are 16 references; of which 15 are Soviet and 1 German.

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KHOVANSKIY, G.S.

Replacing the logarithmic function by an exponential function in
approximate nomography. Vych. mat. no.1:153-166 '57. (MIRA 10:11)
(Nomography (Mathematics)) (Functions, Exponential)
(Hydraulics)

KHOVANSKIY, O.S.

Methods of constructing nomograms by means of triangular
(hexagonal) transparent sheets. Vych.mat. no.2:160-177 '57.
(MIRA 10:12)
(Nomography (Mathematics))

KHOKHLOV, G.S.

16(1); 20(2)

NAME & BOOK EXPLOITATION

SOV/3365

Akademiya nauk Azerbaydzhanской SSR

Tesisy dokladov Soveshchaniya po vychislitel'noy matematike i primeneniya
sredstv vychislitel'noy tekhniki (Outlines of Reports of the Conference On
Computational Mathematics and the Use of Computer Techniques) Baku, 1970.
63 p., 400 copies printed.

Additional Sponsoring Agencies: Akademiya nauk SSSR. Vychislitel'nyy tsentr,
and Akademiya nauk SSSR. Institut avtomatiki i telemekhaniki.

No contributors mentioned.

PURPOSE: This book is intended for pure and applied mathematicians, scientists,
engineers and scientific workers, whose work involves computation and the use
of digital and analog electronic computers.

COVERAGE: This book contains summaries of reports made at the Conference on
Computational Mathematics and the Application of Computer Techniques.
The book is divided into two main parts. The first part is devoted to
computational mathematics and contains 19 summaries of reports. The second
section is devoted to computing techniques and contains 20 summaries of
reports. No personalities are mentioned. No references are given.

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Card 5/7

AUTHOR: Khovanskiy, G.S. (Moscow)

SOV/24-58-9-17/31

TITLE: On the Use of the Reduced Roughness Coefficient in the Calculation of Free Surface Curves by a Nomographic Method
(Ob ispol'zovanii prievedennogo koefitsiyenta sherokhovatosti pri raschete krivykh svobodnoy poverkhnosti nomograficheskim metodom)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Otdeleniye Tekhnicheskikh Nauk, 1958, Nr 9, pp 112 - 116 (USSR)

ABSTRACT: The nomographic method of calculation of free surfaces is based on the use of formulae for the coefficient C of the form:

$$C = \frac{1}{n} R^y \quad (1)$$

where y is a constant. In his previous paper (Ref 2), the present author extended this method to other formulae for the coefficient C by replacing them by approximate expressions of type given by Eq (1) obtained as a result of averaging over the reduced roughness coefficient. The present work reports a further development of the method and discusses its accuracy. It is assumed that a formula of the form $C = \varphi(R, k)$ is given, where k is the

Card1/2

SOV/24-58-9-17/31

On the Use of the Reduced Roughness Coefficient in the Calculation
of Free Surface Curves by a Nomographic Method

roughness coefficient. This expression for C is taken
in the form:

$$C = \frac{1}{n_{np}} R^y \quad \left(n_{np} = \frac{R^y}{\varphi(R, k)} \right) \quad (2)$$

The quantity n_{np} is called the roughness coefficient.

On comparing Formulae (1) and (2), one finds a similarity
between them. In order to find out what is the dependence
of n_{np} on R , y and k , Formulae (3) given by various
authors are used. Nomograms (Figure 1) are given which
may be used in the calculation of free surface curves for
water in a prismatic duct. There are 2 figures and
2 Soviet references.

SUBMITTED: March 7, 1957

Card 2/2